

NSF Elementary Particle Physics

Final FY 02 Budgets
and FY03 Perspectives

HEPAP Presentations

Alexandria, VA

November 2002



Jim Whitmore

New (?) personnel at NSF PHY:

- 1) Alex Firestone – EPP and PA
- 2) Dick Boyd – NP, NA and PA
- 3) Fred Cooper – EPP and PA theory
- 4) Earle Lomon – Nucl. Theory & MP
- 5) Tom Lucatorto – LIGO
- 6) Pat Bautz – Acting EO

NSF FY 00-03 Budget Summary

Update since August HEPAP, final FY02 numbers:

EPP	\$21.89M
PA	\$ 6.65M
CESR	\$19.49M
Theory	\$10.01M

		(\$ Millions)			
	FY00	FY01	FY02	FY03(req.)	%Diff.
MPS	755.88	850.84	922.20	941.57	+2.3
PHY	168.30	187.54	195.88	191.31	-1.3

(But: House recommends not less than \$225M for PHY in FY03)

FY03 EPP and PA Funding:

A number of reviews have been scheduled for this Fall/Winter:

- **CDMS (with DOE and AST)**
- **HiRes**
- **VERITAS (with DOE and AST)**
- **Accelerator physics projects**
- **Elementary Particle Phys. EPP**
- **Particle Astrophysics PA**
- **RSVP**
- **GriPhyN/iVDGL (with CISE)**
- **LHC S/W&C (with both CS and HEP from DOE&NSF; and CERN/EU)**

Miscellaneous (but important) items:

We plan to fund some LC R&D next year - levels are budget sensitive

Science Project Management Workshop

Science Project is a program funded by an NSF award (through the MPS directorate) to train mid-career scientists who are contemplating, proposing, entering or participating in a major scientific construction project, or who wish to broaden their experience in the techniques and perspectives essential to succeeding in a big science setting. The workshop will also be suitable for early career scientists and for engineers, and for those who have oversight responsibility for scientific programs that involve major construction projects and scientific facilities.

We understand that the first session at Caltech on January 18 and 19, 2002 was very well received.

The second Science Project Management Workshop will be held in Williamsburg, VA from November 13-16, 2002. The locale is the Williamsburg Hospitality House, 415 Richmond Rd, Williamsburg, VA

The URL is: www.projectscience.org/workshop2/

Adding Value To EPP

ITR Awards: (\$7.4M in FY02 to EPP)

Deadlines for FY03:

November 18, 2002: Pre-proposals for Large Projects
(over \$4M, not to exceed \$3M/yr for up to 5 yrs)
(Response by January 27, 2003)

December 12, 2002: Proposals for Small Projects
(up to \$500K total)

February 12, 2003: Proposals for Medium Projects
(not to exceed \$4M for up to 5 yrs)

March 24, 2003: Proposals for Large Projects

Adding Value To EPP

MRI Awards: (\$3.2M in FY02 to EPP)

Deadline for FY03:

January 23, 2003

Awards range from \$100,000 to \$2M

Competition for about \$75M in FY03

Funding rate for FY02 MRI competition was about 40%

Adding Value To EPP

CAREER Awards:

(One for EPP and one for PA in FY02)

Deadline: July of each year

Faculty Early Career Development Program

Awards have a 5-year duration integrating research and education

In FY2003:

- **minimum CAREER award is \$400K**
- **No constraints on #yrs since Ph.D. or tenure-track appointment**
- **Ineligible if already had 3 unsuccessful proposals**

Adding Value To EPP

PFC Awards:

Next competition in FY2006

(deadline for pre-proposals: Aug 2005)

Following competitions: FY2008, 2011, 2014,

PHY is fully committed to the PFC program

Broader Impacts:

New NSF Proposal Policy:

Effective October 1, 2002, NSF will **return without review proposals that do not separately address both merit review criteria (Research; Broader Impacts) within the Project Summary. We believe that these changes to NSF proposal preparation and processing guidelines will more clearly articulate the importance of broader impacts to NSF funded projects.**

Note: 5-year NSF funding for QuarkNet (with EHR) at the requested level;
And see the recent article in *Nature*

Prospects for FY2003:

Senate Appropriations Committee:

"The committee is providing \$1,056.570M for MPS (and) has increased the FY2003 request for PHY, CHE, AST, DMR and OMA by ... \$135M."

House Appropriations Committee:

"The committee's recommendation includes \$1,058.510M for MPS and not less than \$225M, a 15% increase over the FY2002 funding level, for Physics programs."

MREFC funds:

for LHC: (\$9.72M) by both Senate/House;

for IceCube: House (\$24.7M) and Senate (urges NSF to continue moving forward)